

SC-439Ti Cored

METAL CORED ARC WELDING CONSUMABLE FOR WELDING OF 409, 430, 436 AND 439 TYPE STAINLESS STEEL

HYUNDAI WELDING CO., LTD.

Specification

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Applications

Metal cored wire designed for the horizontal fillet welding of AISI 439 ferrite stainless steels.

Characteristics on Usage

This wire has specifically formulated for use in the welding of automotive exhaust systems and mufflers. It benefits from being spatter free and without slag formation when used in conjunction with argon or argon oxygen mixed shielding gas. It also has an excellent deposition rate and corrosion resistance.

Note on Usage

Use with Ar or Ar + $2\sim5\%O_2$ gas.

Packing

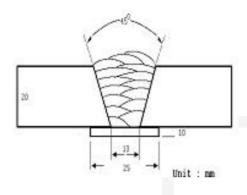
Dia.	1.2mm(0.045in)		
Spool *including ball pac	12.5kg(27.6lbs)	15kg(33lbs)	



Mechanical Properties & Chemical Composition of All Weld Metal

*** Welding Conditions**

Method by AWS Spec.



[Joint Preparation & Layer Details]

Diameter(mm) : 1.2mm(0.045in)

Shielding Gas : 100%Ar

Flow Rate(ℓ /min.) : 20~22 Amp./ Volt. : 220/26

Stick-Out(mm) : 20mm (0.79in)Pre-Heat($^{\circ}$) : 150° (302° F)

Interpass Temp.(°C) : $150 \sim 260 \, ^{\circ} (302 \sim 500 \, ^{\circ})$

Polarity : DC(+)

❖ Mechanical Properties of All weld metal

Consumable	Tensil	e Test	Heat Treatment	
SC-439Ti Cored	TS MPa(ksi)	EL(%)	770°C (1418°F) × 4Hr	
	500(73)	40	FC to 600℃ (1112°F) AC to RT	

Chemical Analysis of All weld metal(wt%)

Consumable	С	Si	Mn	Р	S	Cr	Ti
SC-439Ti Cored	0.03	0.30	0.60	0.005	0.010	18.5	0.75



Proper Welding Condition

Proper Current Range

Consumable Shielding Gas	Shieldina		Wire Dia.	
	Welding Position	1.2mm (0.045in)		
SC-439Ti Cored	100%Ar or Ar + 2~5%O ₂ gas	F & HF	150~250Amp	